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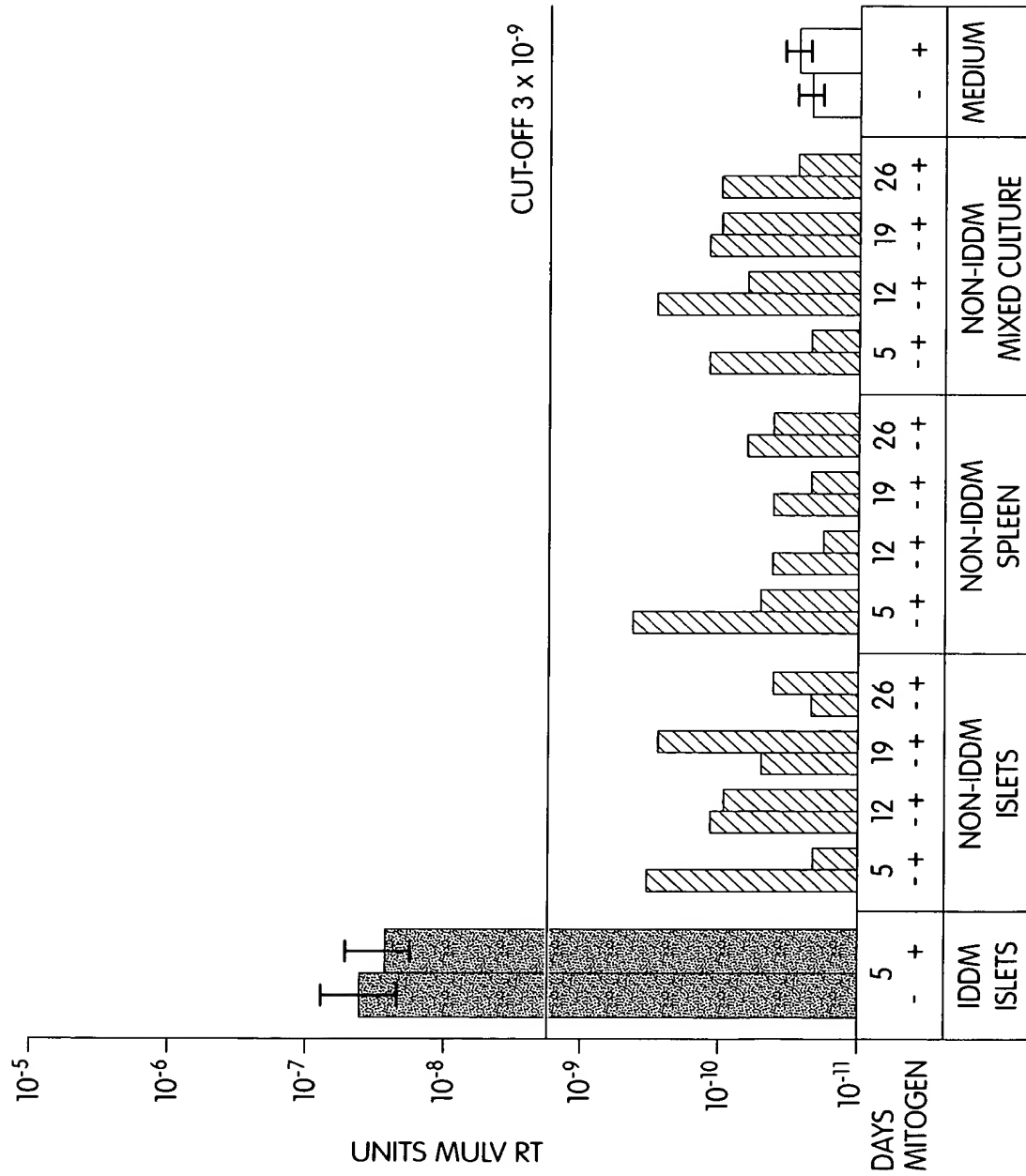


Fig. 1A



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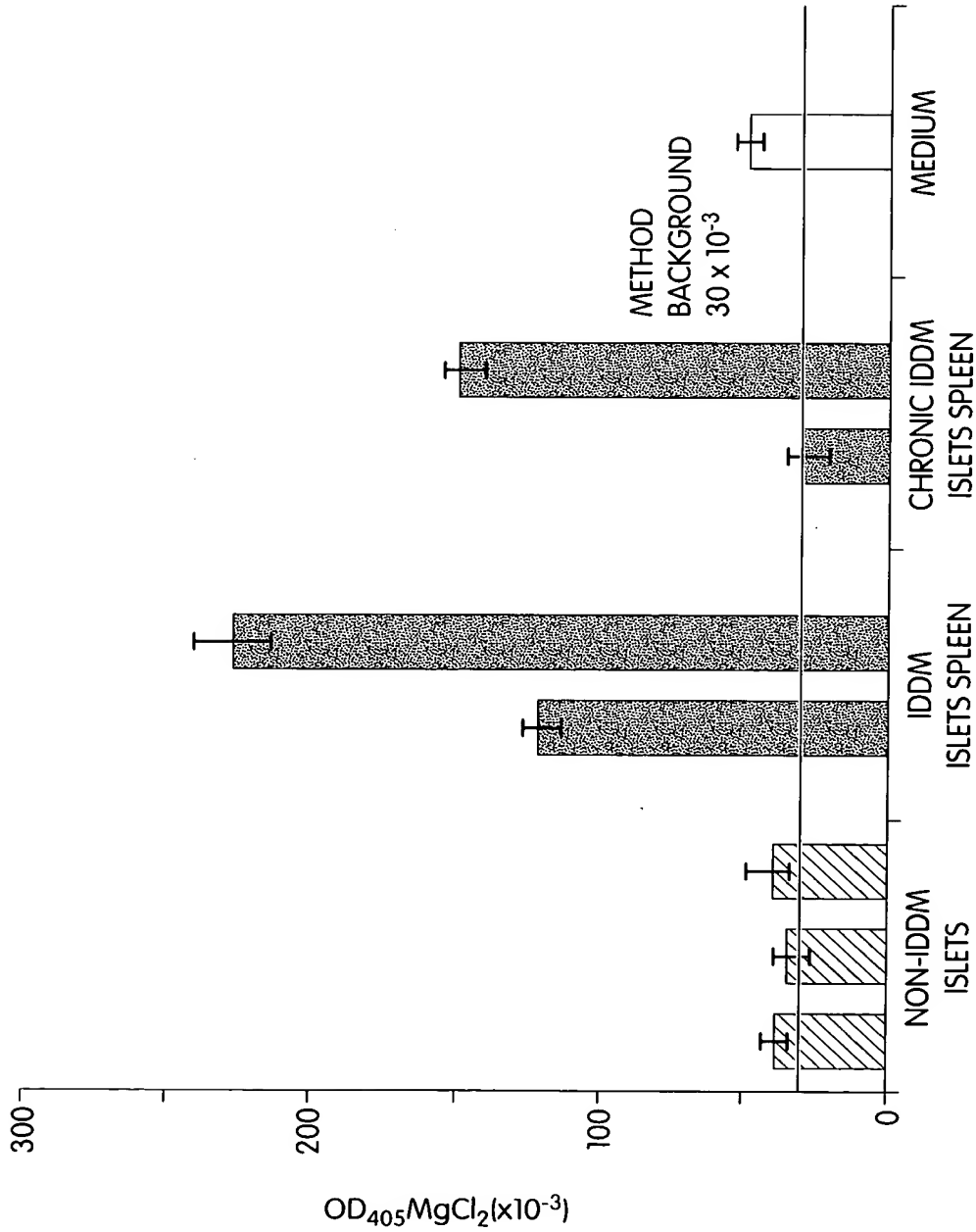


Fig. 1B

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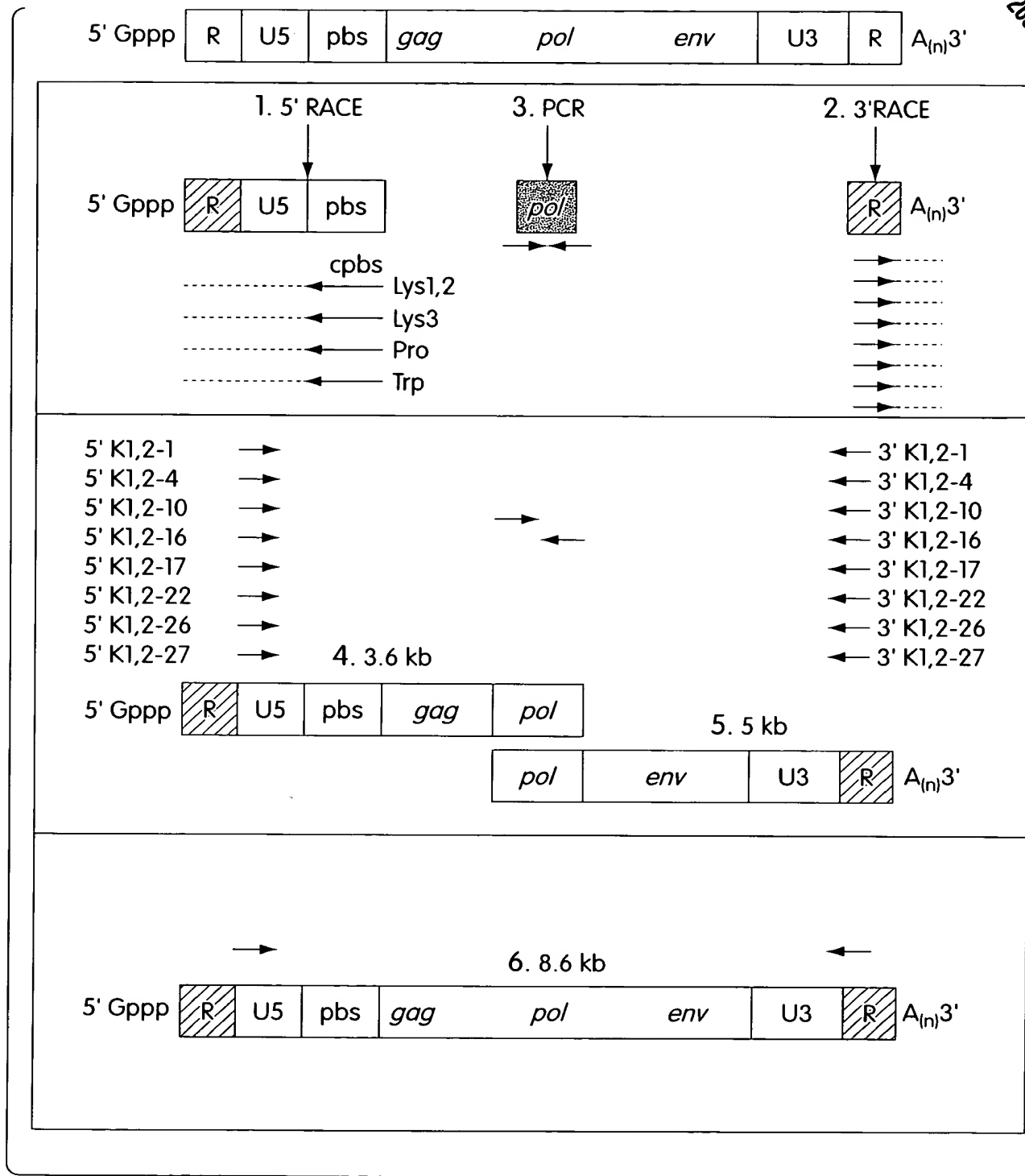


Fig. 2A

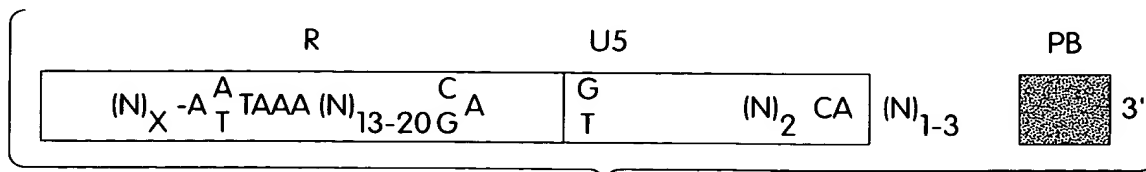


Fig. 2B

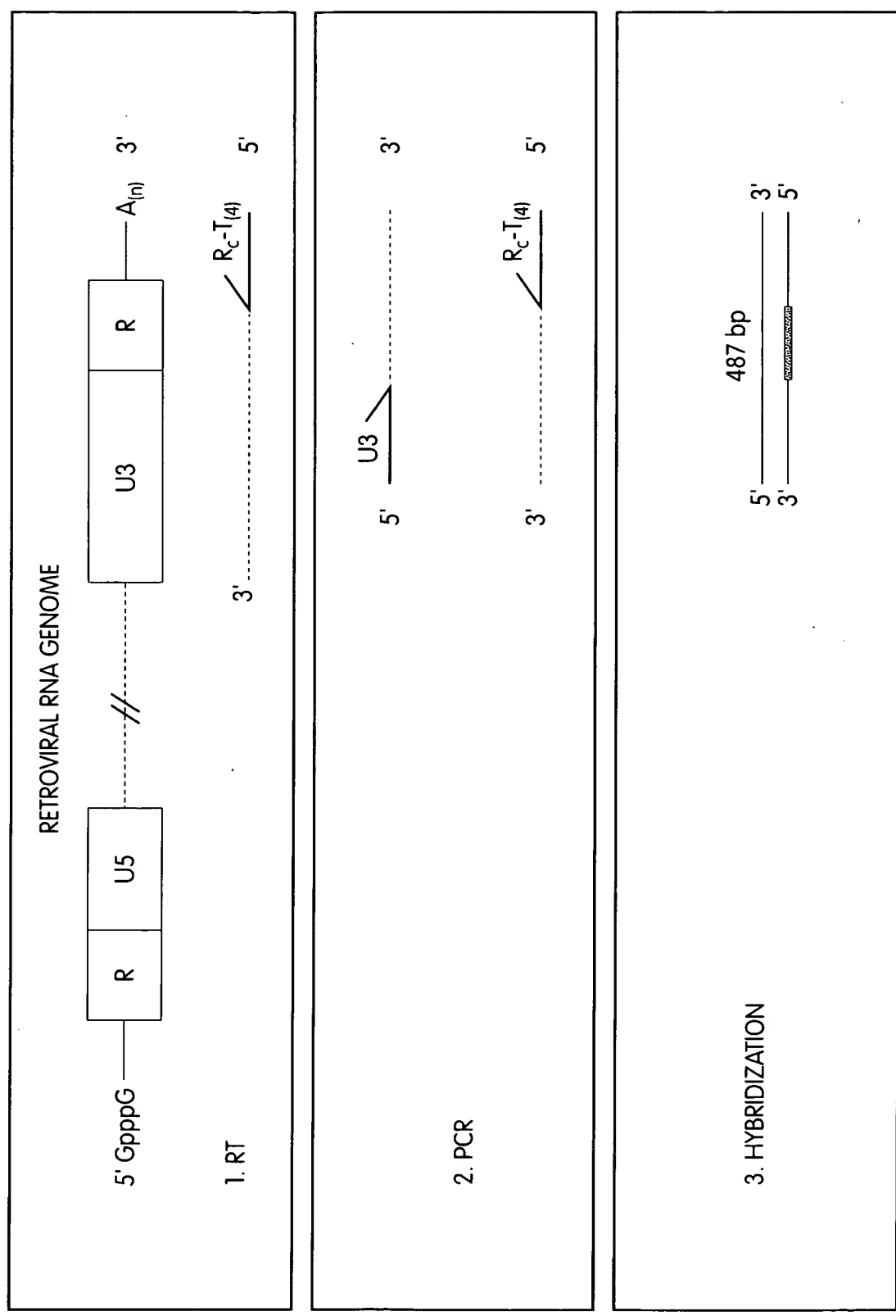
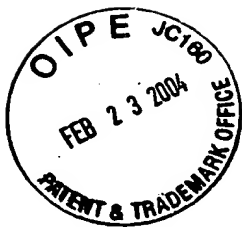


Fig. 2C



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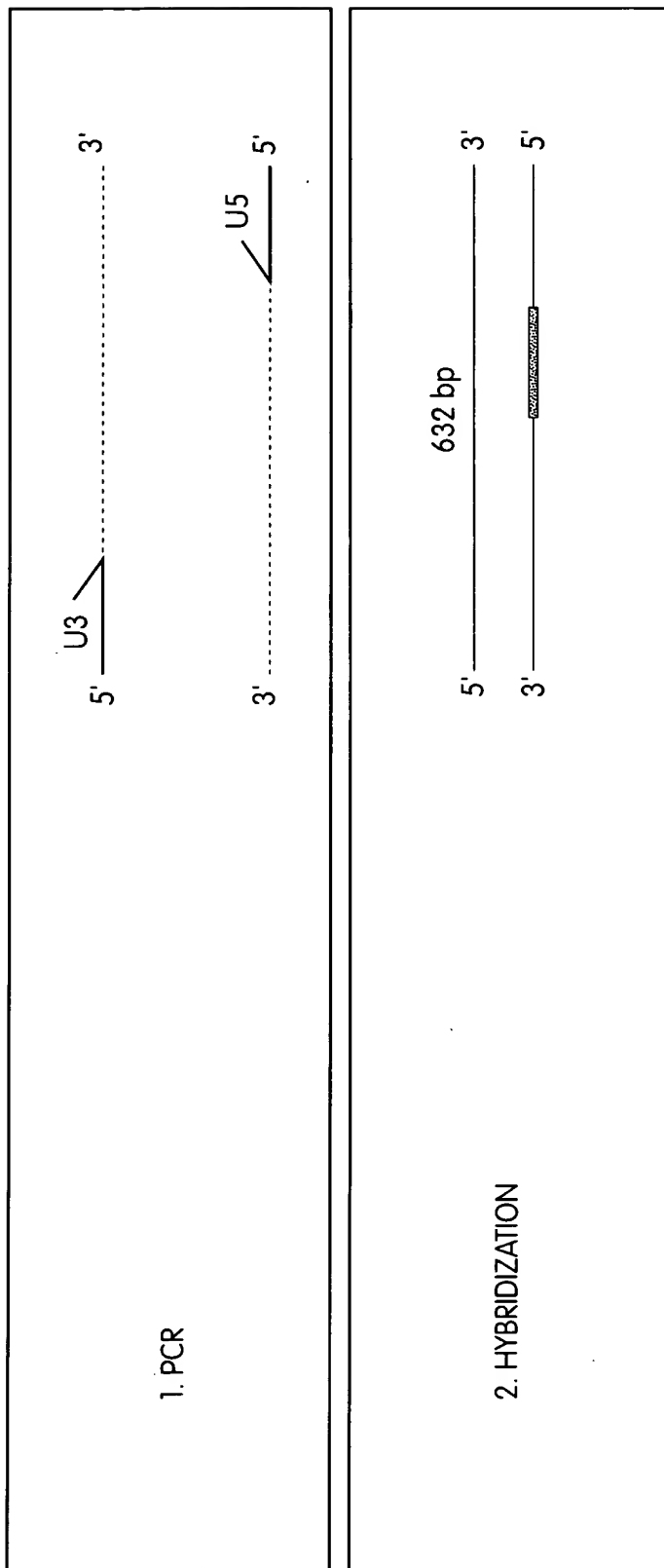
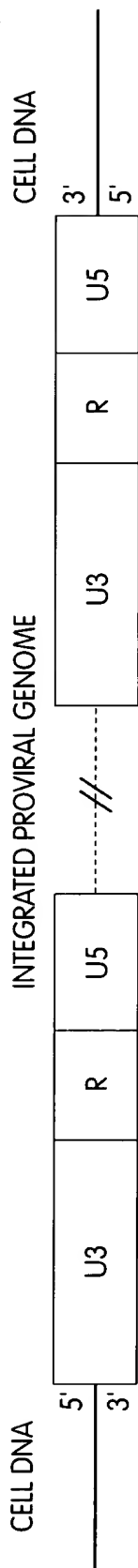


Fig. 2D

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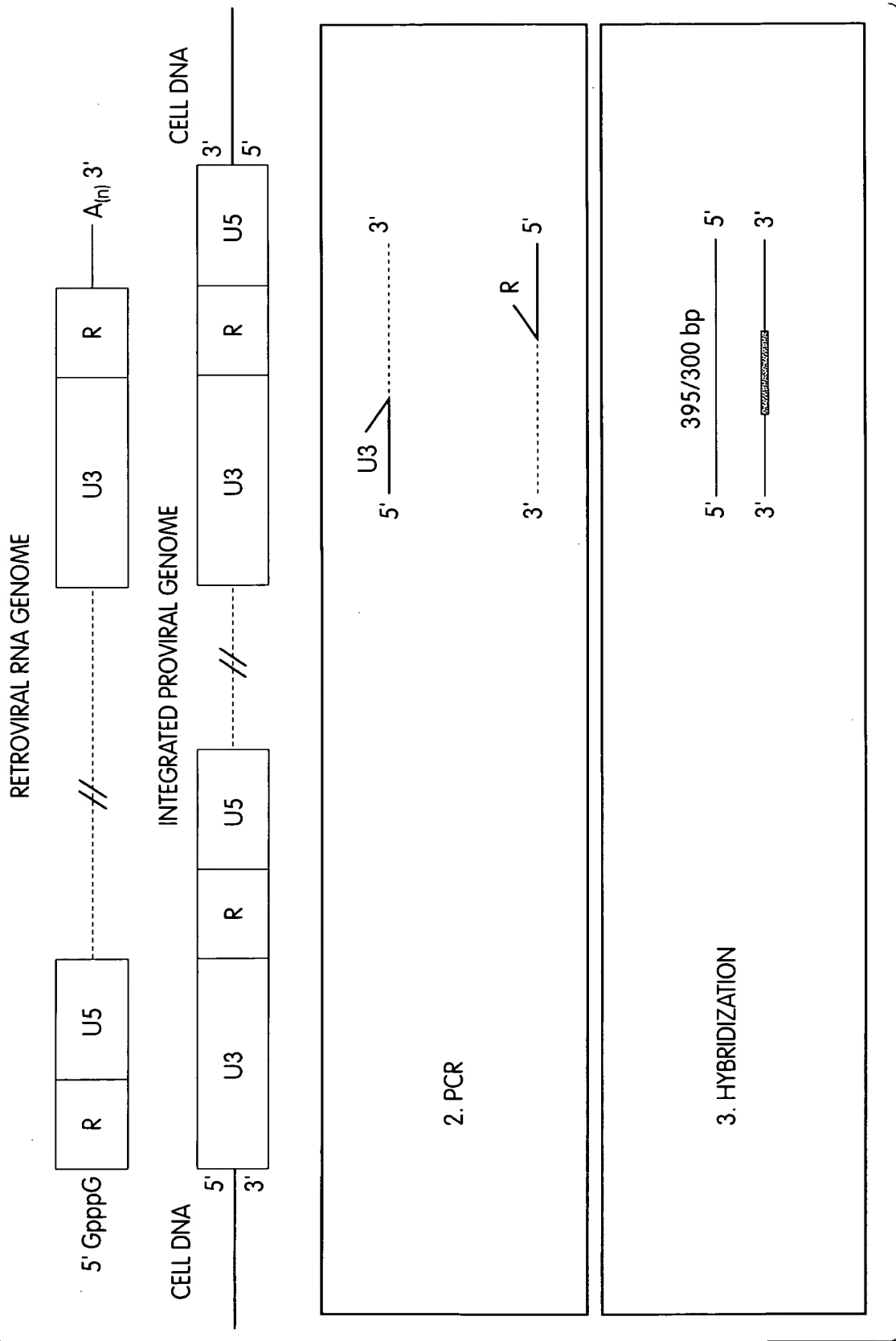
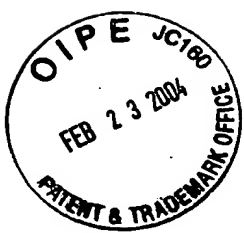


Fig. 2E



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TEMPLATE	SPECIFICITY	IDDM PATIENTS (n=10)	CONTROLS (n=10)
RNA	RT+ U3-R		
	RT+ U3-R-POLY(A)		
	RT- U3-R		
	RT- U3-R-POLY(A)		
DNA	U3-R		

Fig. 2F



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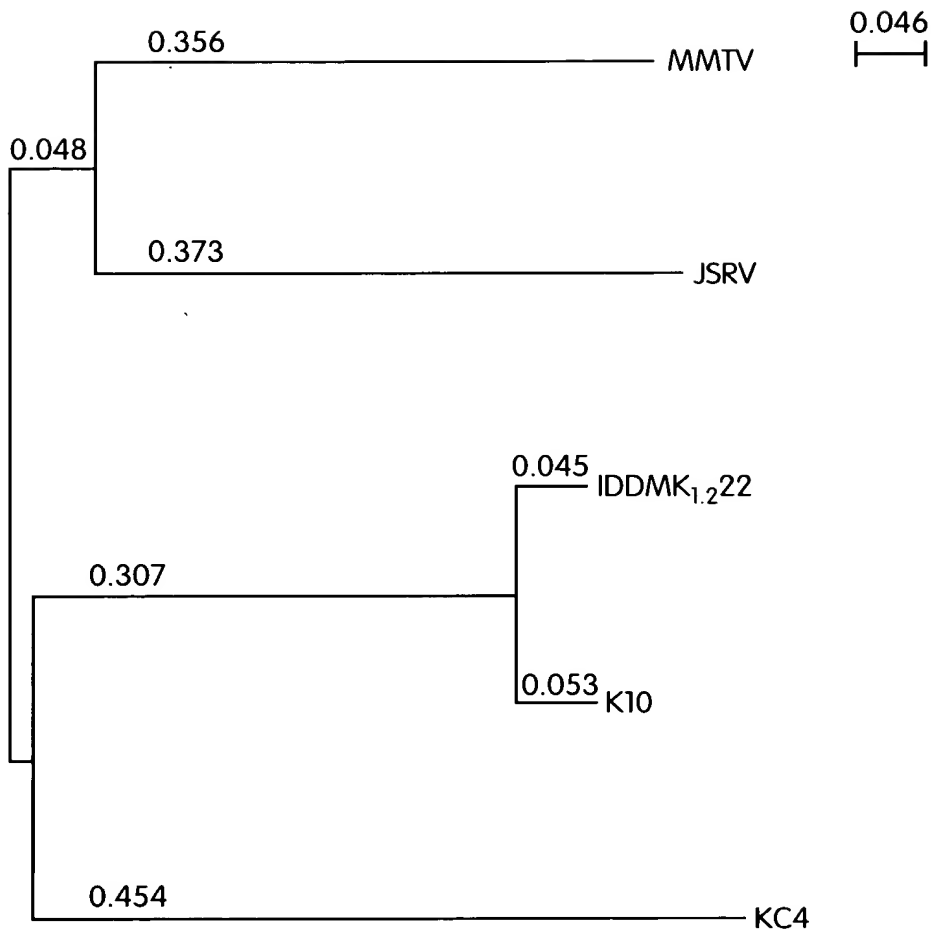


Fig. 3A



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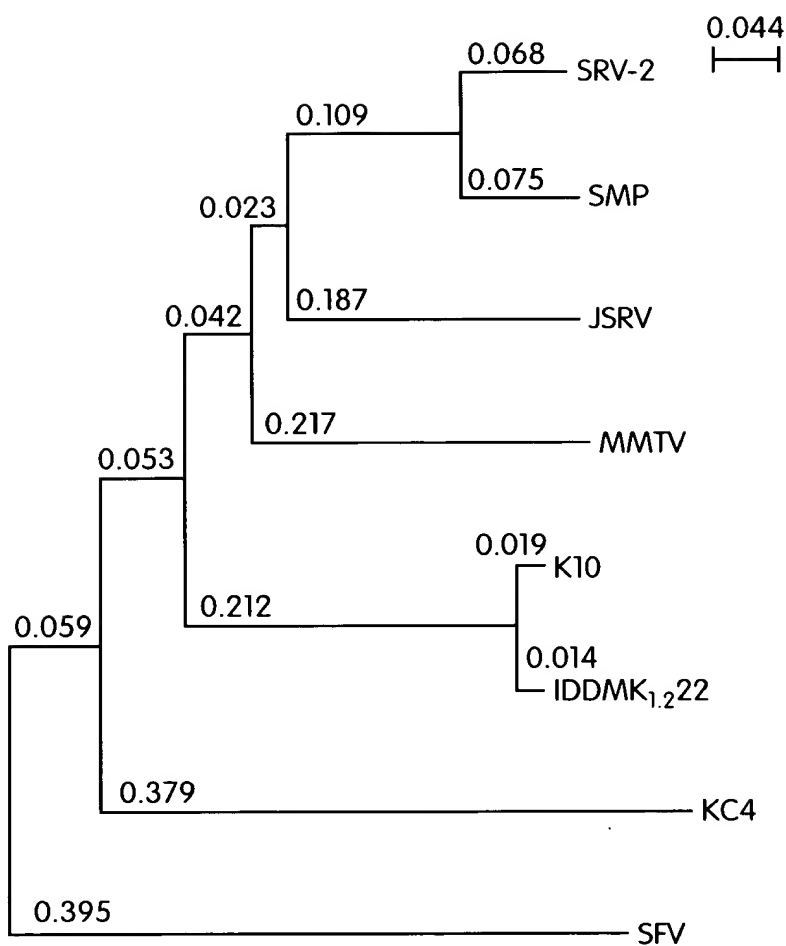
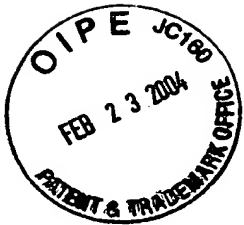


Fig. 3B



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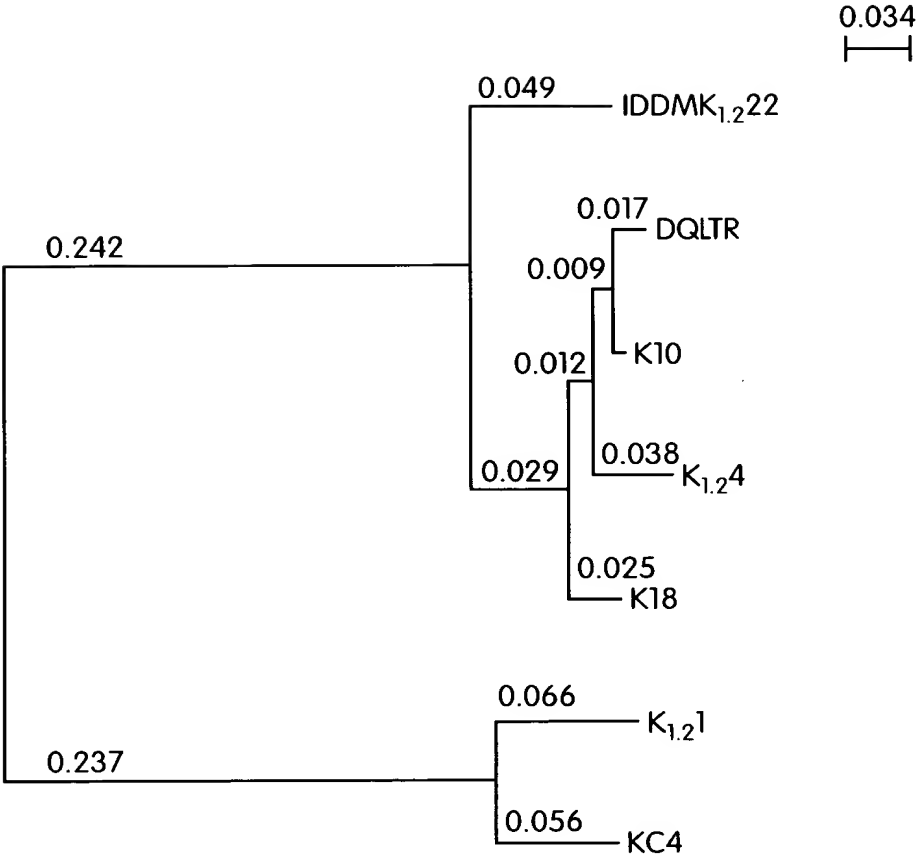


Fig. 3C

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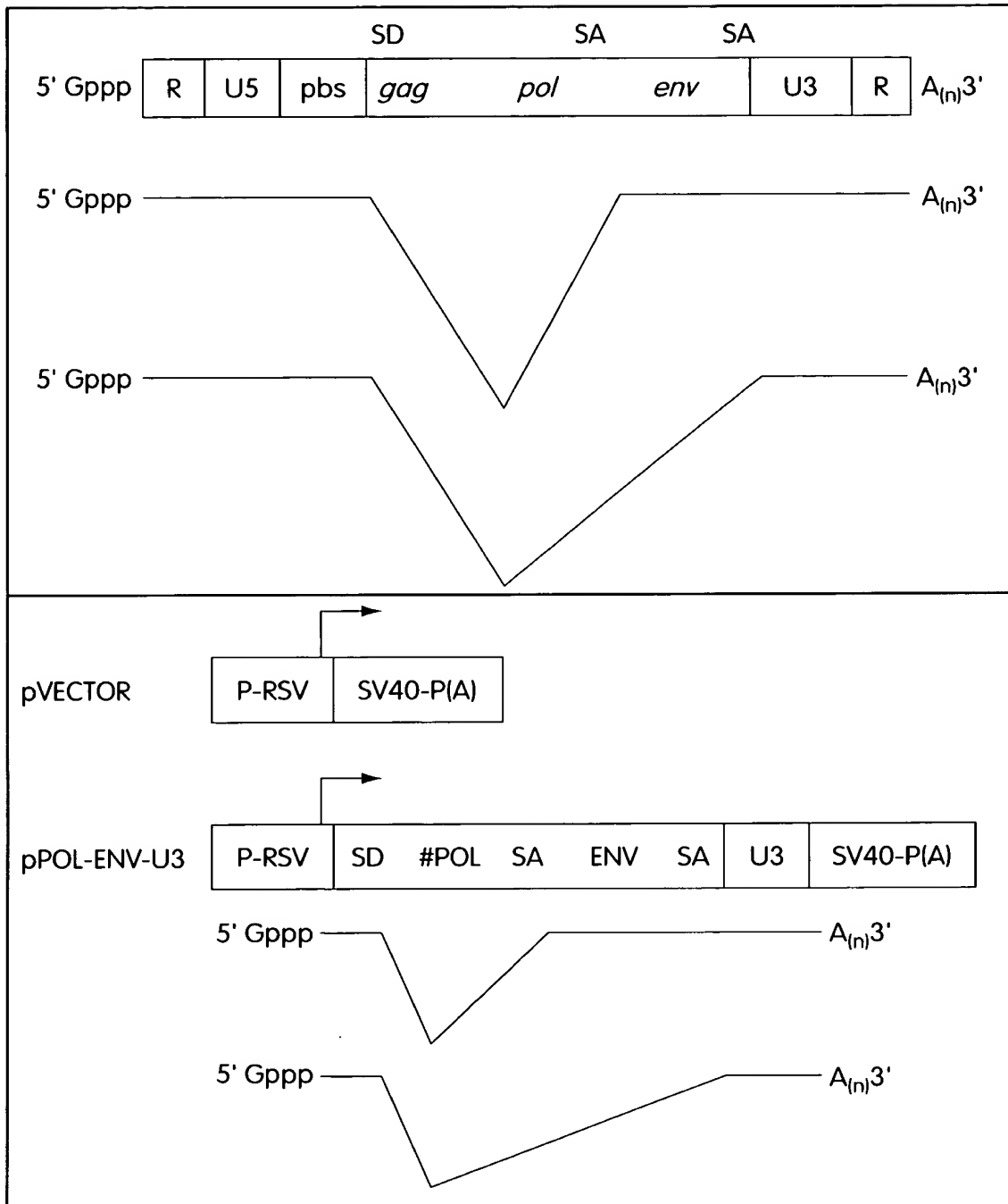
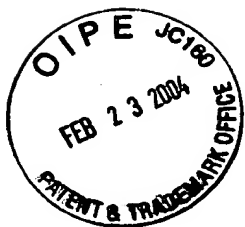


Fig. 4A



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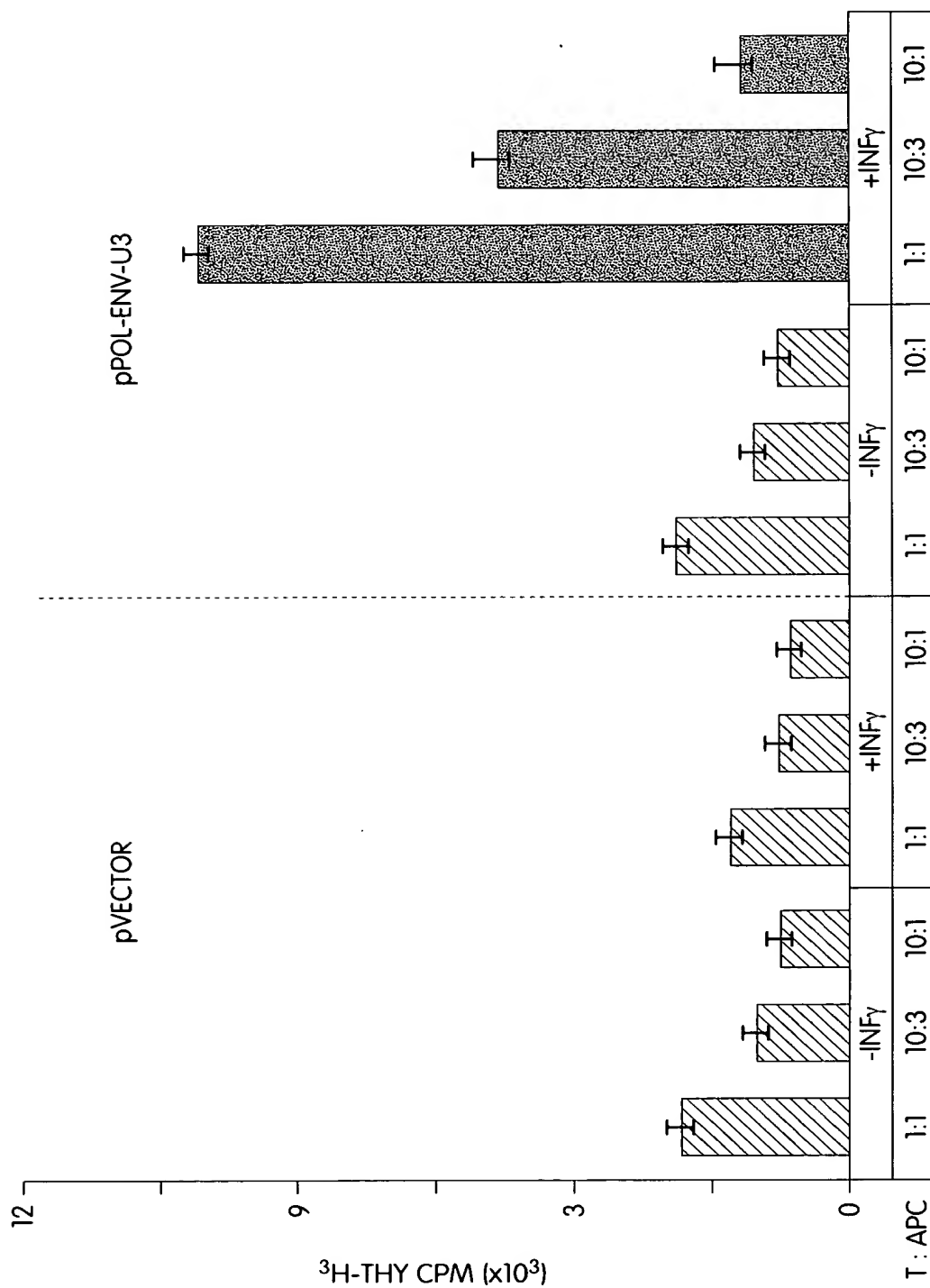
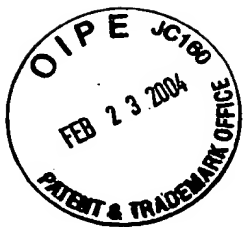


Fig. 4B



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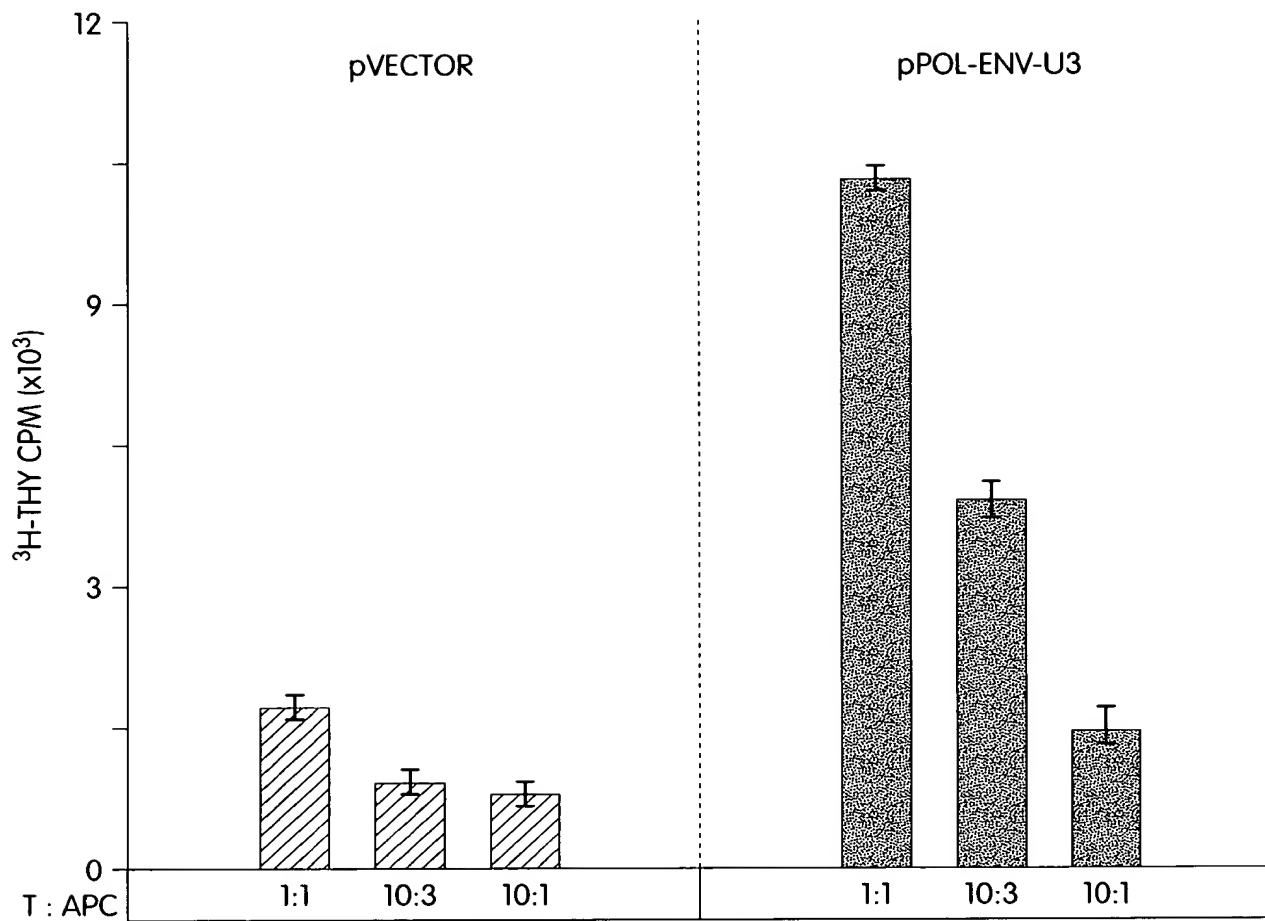


Fig. 4C



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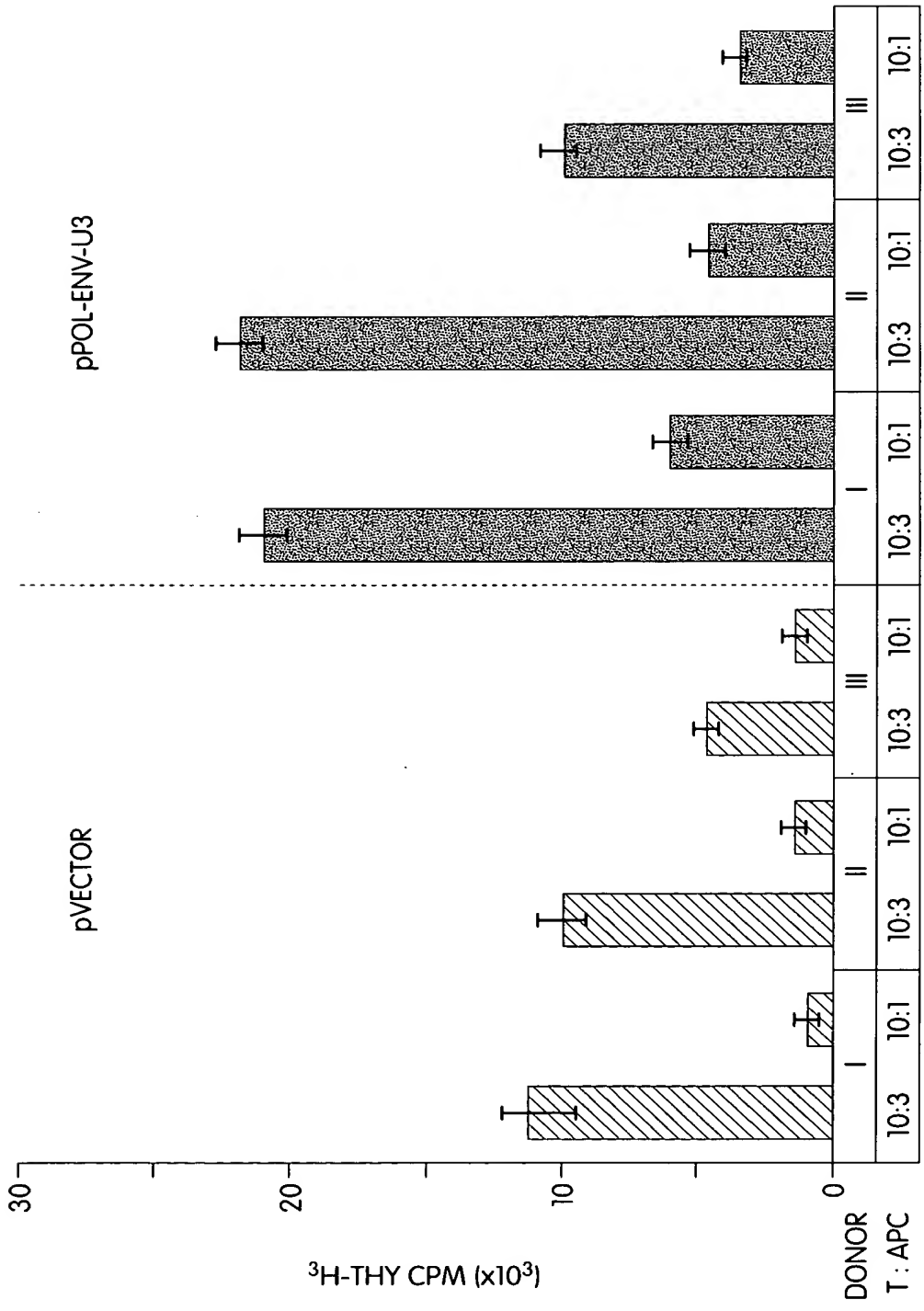
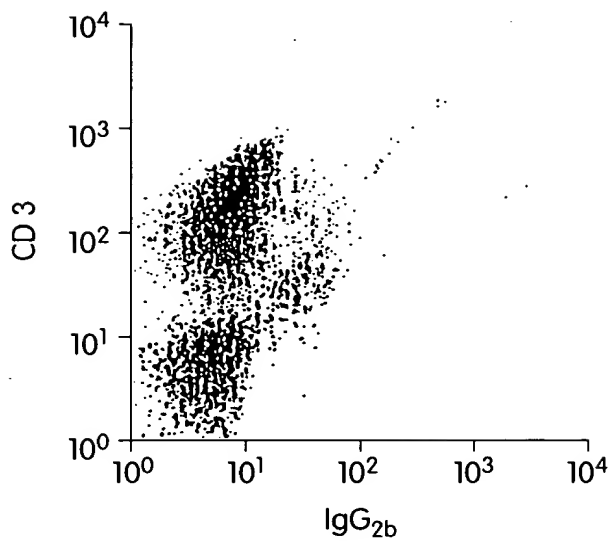


Fig. 4D

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Fig. 5A

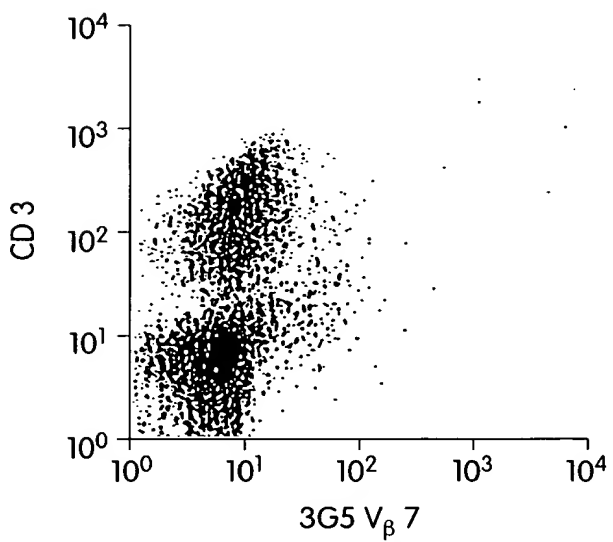


Fig. 5B

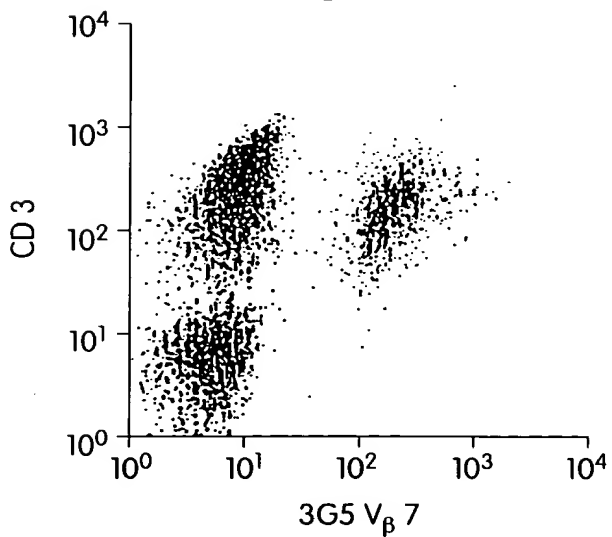


Fig. 5C



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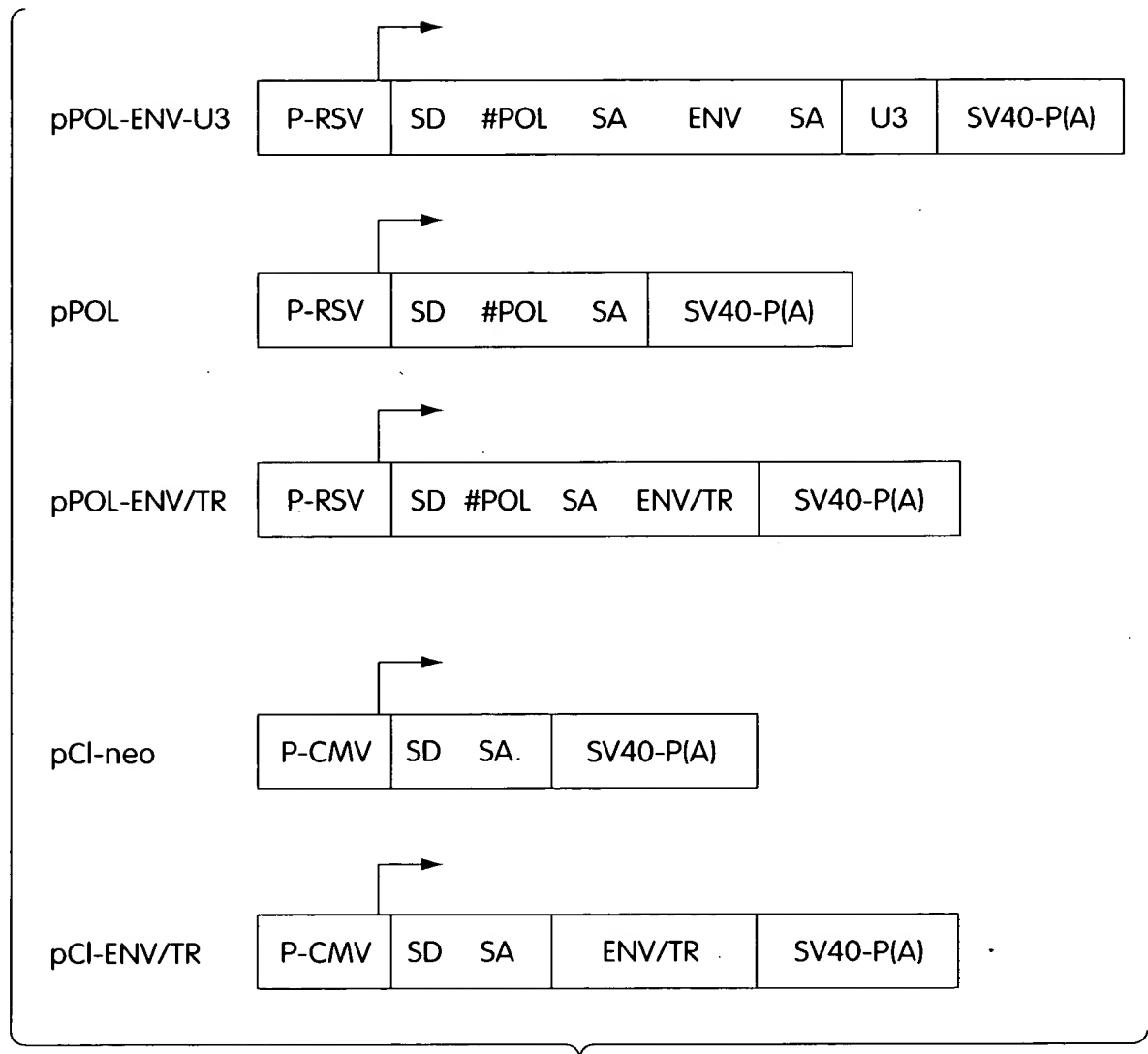


Fig. 6A



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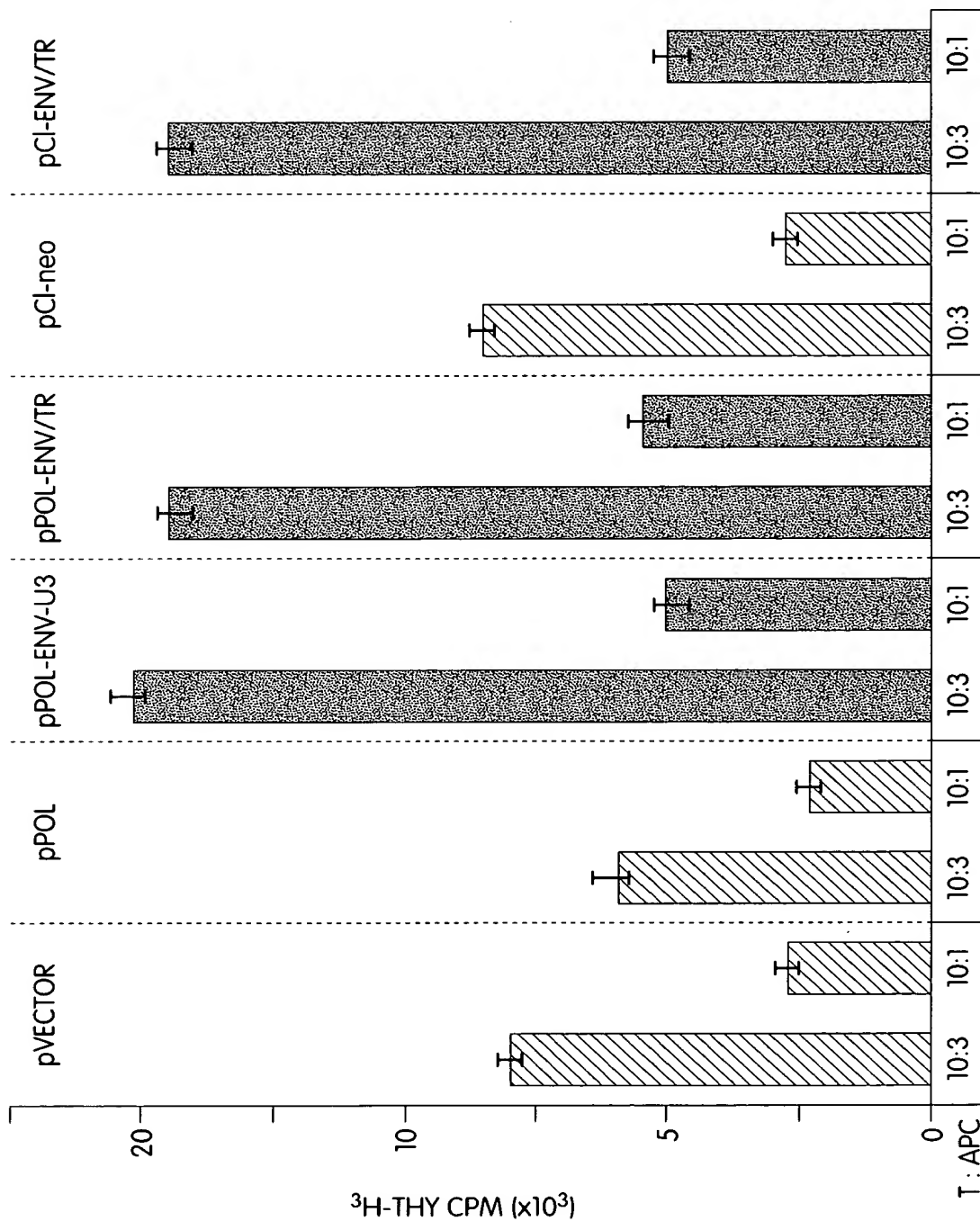


Fig. 6B



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iddmk1,2 22-5'ltr

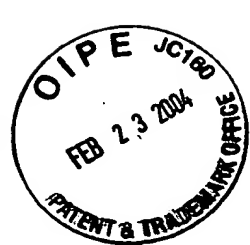
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CTCTGTGTCTTTTTCTTTTCCAAGTCTTCTTCATTTGCACCTTACGAGAAACATCTCCATCAT
GGTTGTTGGATGGGGGCAA

Fig. 7A

iddmk1,2 22-3'ltr

CTGCAGGTGTACCCAACAGCTCCGAAGAGACAGTGACATCGAGAACGGGCCATGATGACGATG
GCGGTTTTGTGCGAAAAGAAAAGGGGGAAATGTGGGGAAAAGCAAGAGAGATGAGATTGTTACT
GTGTCTGTATAGAAAGAAGTAGACATAGGAGACTCCATTTTGTCTGTACTAAGAAAAATTCT
TCTGCCTTGAGATGCTGTTAATCTATGACCTTACCCCCAACCCCGTGCTCTCTGAAACATGTG
CCGTGTCAAAcTCAGGGTTAAATGGATTAAGGGTGGTGCAAGATGTGCTTTGTTAAACAGATG
CTTGAAGGCAGCATGCTCATTAAAGAGTCATCACCCTCCCTAATCTCAAGTACCCAGGGACAC
AAACACTGCGAAAGGCCGAGGGACCTCTGCCTAGGAAAGCCAGGTATTGTCCAAGGTTTCTC
CCCATGTGATAGTCTGAAATATGGCCTCGTGGAAGGGAAAGACCTGACCATCCCCCAGACCA
ACACCCGTAAAGGGTCTGTGCTGAGGAGGATTAGTATAAGAGGAAAGCATGCCTCTTGCAAGTT
GAGAGAAGAGGAAGACATCTGTCTCCTGCCCATCCCcTGGGCAATGGAATGTCTCAGTATAAA
ACCCGATTGAACATTCCATCTACTGAGATAGGGAAAAACTGCCTTAGGGCTGGAGGTGGGACA
TGTGGGCAGCAATACTGCTTTGTAAAGCATTGAGATGTTTATGTGTATGTATATCTAAAAGCA
CAGCACTTGATCCTTTACCTTGTCTATGATGCAAACACCTTTGTTACAGTGTTTGTCTGCTGA
CCCTCTCCCCACTATTGTCTTGTGACCCTGACACATCTCCCTCAGGAGAAACACCCAcgaatg
atcaataaataactaaggggactcagaggctggtgggatcctccatatgctgaacggttggttcc
cggggcccccttatttctttctctatactttgtctctgtgtctttttcttttccaagtcttct
tcatttgcaccttacgagaaacatctccatcatggttggttgatgggggcaa

Fig. 7B



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iddmk1,2 22-env

ATGGTAACACCAGTCACATGGATGGATAATCCTATAGAAGTATATGTTAATGATAGTGTATGG
GTACCTGGCCCCACAGATGATCGCTGCCCTGCCAAACCTGAGGAAGAAGGGATGATGATAAAT
ATTTCCATTGGGTATCATTATCCTCCTATTTGCCCTAGGGAGAGCACCAGGATGTTTAATGCCT
GCAGTCCAAAATTGGTTGGTAGAAGTACCTACTGTCAGTCCTAACAGTAGATTCACTTATCAC
ATGGTAAGCGGGATGTCACCTCAGGCCACGGGTAAATTATTTACAAGACTTTTCTTATCAAAGA
TCATTAAAATTTAGACCTAAAGGGGAAAACCTGCCCAAGGAAATTCCTAAAGGATCAAAGAAT
ACAGAAGTTTTAGTTTGGGAAGAATGTGTGGCCAATAGTGTGGTGATATTACAAAACAATGAA
TTCGGAACATTATAGATTAGGCACCTCGAGGTCAATTCTACCACAATTGCTCAGGACAAACT
CAGTCGTGTCCAAGTGCACAAGTGAGTCCAGCTGTTCGATAGCGACTTAACAGAAAGTCTAGAC
AAACATAAGCATAAAAAATTACAGTCTTTCTACCTTTGGGAATGGGAAGAAAAAGGAATCTCT
ACCCCAAGACCAAAAATAATAAGTCCTGTTTCTGGTCTGAACATCCAGAATTGTGGAGGCTT
ACTGTGGCCTCACACCACATTAGAATTTGGTCTGGAAATCAAACTTTAGAAACAAGATATCGT
AAGCCATTTTATACTATCGACCTAAATTCCATTCTAACGGTTCCTTTACAAAGTTGCCTAAAG
CCCCCTTATATGCTAGTTGTAGGAAATATAGTTATTTAAACCAGCCTCCCAAACCTATAACCTGT
GAAAATTGTAGATTGTTTACTTGCATTGATTCAACTTTTAATTGGCAGCACCCTATTCTGCTG
GTGAGAGCAAGAGAAGGCATGTGGATCCCTGTGTCCACGGACCGACCGTGGGAGGCCCTCGCCA
TCCATCCATATTTTGAATGAAATATTTAAAGGCGTTTTAAATAGATCCAAAAGATTCAATTTT
ACTTTAATTGCAGTGATTATGGGATTAATTGCAGTCACAGCTACGGCTGCTGTGGCAGGGGTT
GCATTGCACTCTTCTGTTCAAGTCAGTAAACTTTGTTAATTATTGGCAAAAGAATTCTACAAGA
TTGTGGAATTCACAATCTAGTATTGATCAAAAATTGGCAAGTCAAATTAATGATCTTAGACAA
ACTGTCATTTGGATGGGAGACAGGCTTGACTTAGAACATCATTTCCAGTTACAGTGTGACTGG
AATACGTCAGATTTTTGTATTACACCCCAAATTTATAATGAGTCTGAGCATCACTGGGACATG
GTTAGACGCCATCTACAGGGAAGAGAAGATAATCTCACTTTAGACATTTCCAAATTTAAAGAA
CAAATTTTCGAAGCATCAAAGGCCATTTAAATTTGGTGCCAGGAAGTGGGCAATTGCAGGA
GTTGCTGATGGCCTCGCAAATCTTAACCCTGTCACTTGGATTAAAGACCATCAGAAGTACTATG
ATTATAAATCTCATATTAATCGTTGTGTGCTGTTTTGTCTGTTGTTAGTCTGCAGGTGTACC
CCAACAGCTCCGAAAAAACAGTGACATCGAGAACGGGCCATGAATGACAAAGGCGTTTTTG
TTCCAAAAAAAAGGGGAAATTTTGGGGAAAACCAAAAAAATGAAAATGTT

Fig. 7C



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ACA TTT GAA GTT CTA CAA TGA ACC CAT CAG AGA TGC AAA GAA AAG CGC CTC CAC GGA 57

GAT GGT AAC ACC AGT CAC ATG GAT GGA TAA TCC TAT AGA AGT ATA TGT TAA TGA TAG 114
M V T P V T W M D N P I E V Y V **N D S** 19

TGT ATG GGT ACC TGG CCC CAC AGA TGA TCG CTG CCC TGC CAA ACC TGA GGA AGA AGG 171
V W V P G P T D D R C P A K P E E E G 38

GAT GAT GAT AAA TAT TTC CAT TGG GTA TCA TTA TCC TCC TAT TTG CCT AGG GAG AGC 228
M M I **N I S I** G Y H Y P P I C L G R A 57

ACC AGG ATG TTT AAT GCC TGC AGT CCA AAA TTG GTT GGT AGA AGT ACC TAC TGT CAG 285
P G C L M P A V Q N W L V E V P T V S 76

TCC TAA CAG TAG ATT CAC TTA TCA CAT GGT AAG CGG GAT GTC ACT CAG GCC ACG GGT 342
P N S R F T Y H M V S G M S L R P R V 95

AAA TTA TTT ACA AGA CTT TTC TTA TCA AAG ATC ATT AAA ATT TAG ACC TAA AGG GAA 399
N Y L Q D F S Y Q R S L K F R P K G K 114

AAC TTG CCC CAA GGA AAT TCC TAA AGG ATC AAA GAA TAC AGA AGT TTT AGT TTG GGA 456
T C P K E I P K G S K N T E V L V W E 133

AGA ATG TGT GGC CAA TAG TGT GGT GAT ATT ACA AAA CAA TGA ATT CGG AAC TAT TAT 513
E C V A N S V V I L Q N N E F G T I I 152

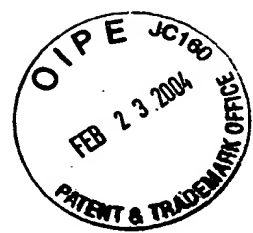
AGA TTA G 520
D * 153

Fig. 7D

k1,2-22-env/fs

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ACACCAGTCACATGGATGGATAATCCTATAGAAGTATATGTTAATGATAGTGTATGGGTACCTG
GCCCCACAGATGATCGCTGCCCTGCCAAACCTGAGGAAGAAGGGATGATGATAAATATTTCCAT
TGGGTATCATTATCCTCCTATTTGCCTAGGGAGAGCACCAGGATGTTTAAATGCCTGCAGTCCAA
AATTGGTTGGTAGAAGTACCTACTGTCAGTCCTAACAGTAGATTCACTTATCACATGGTAAGCG
GGATGTCACTCAGGCCACGGGTAAATTATTTACAAGACTTTTCTTATCAAAGATCATTAATAATT
TAGACCTAAAGGGAAACTTGCCCCAAGGAAATTCCTAAAGGATCAAAGAATACAGAAGTTTAA
GTTTGGGAAGAATGTGTGGCCAATAGTGTGGTGATATTACAAAACAATGAATTCGGAACCTATTA
TAGATTAGGCACCTCGAGGTCAATTCTACCACAATTGCTCAGGACAAACTCAGTCGTGTCCAAG
TGCACAAGTGAGTCCAGCTGTTCGATAG

Fig. 7E



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iddmk1,2 22-ENV

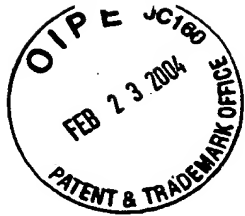
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PGCLMPAVQNLVEVPTVSPNSRFTYH MVSGMSLRPRVNYLQDFS YQ RSLKFRPKG
KTC PKEIPK GSKNTEVLVWEECVANSV VILQ NNEFGTIIDZAPRGQFYHNC SGQTQSC
PSAQVSPA VDSDLTESLDKHKHKKLQSFYLWEWEEKGISTPRPKIISPVS GPEHPEL
WRLTVASHHIRIWSGNQTL ETRYRKPFYTI DLNSILTVPLQ SCLKPPYMLV VGNIVIKP
ASQTITCENCRLFTCIDSTFNWQH RILLVRAREGMWIPVSTDRPWEASPSIHILTEILK
GVLNRSKRFIFTLIAVIMGLIAVTATAAVAGVALHSSVQSVNFVNYWQKNSTR LWN S
QSSIDQKLASQINDLRQTVIWMGDR LDLEHHFQLQCDWNTSDFCITPQIYNESEHH
WDMVRRHLQGREDNLTLDISK LKEQIFEASKAHLNLVPGTEAIAGVADGLANLNPVT
WIKTIRSTMIINLILIVVCLFCLLLVCRCTPTAPKKTVTSRTGHE

Fig. 7F

ACATTTGAAGTTCTACAATGAACCCATCAGAGATGCAAAGAAAAGCGCCTCCACGGAGATGGT 63
2
M V
AACACCAGTCACATGGATGGATAATCCTATAGAAGTATATGTTAATGATAGTGTATGGGTACC 126
23
T P V T W M D N P I E V Y V N D S V W V P
189
TGGCCCCACAGATGATCGCTGCCCTGCCAAACCTGAGGAAGAAGGGATGATGATAAATATTTT 44
G P T D D R C P A K P E E E G M M I N I S
252
CATTGGGTATCATTATCCTCCTATTTGCCTAGGGAGAGCACCAGGATGTTTAATGCCTGCAGT 65
I G Y H Y P P I C L G R A P G C L M P A V
315
CCAAAATTGGTTGGTAGAAGTACCTACTGTCAGTCCTAACAGTAGATTCACTTATCACATGGT 86
Q N W L V E V P T V S P N S R F T Y H M V
378
AAGCGGGATGTCACCTCAGGCCACGGGTAAATTATTTACAAGACTTTTCTTATCAAAGATCATT 107
S G M S L R P R V N Y L Q D F S Y Q R S L
431
AAAATTTAGACCTAAAGGGAAACTTGCCCCAAGGAAATTCCTAAAGGATCAAAGAATACAGA 128
K F R P K G K T C P K E I P K G S K N T E
504
AGTTTTAGTTTGGGAAGAATGTGTGGCCAATAGTGTGGTGATATTACAAAACAATGAATTCGG 149
V L V W E E C V A N S V V I L Q N N E F G
567
AACTATTATAGATTTAGGCACCTCGAGGTCAATTCTACCACAATTGCTCAGGACAAACTCAGT 170
T I I D L G T S R S I L P Q L L R T N S V
601
CGTGTCCAAGTGCACAAGTGAGTCCAGCTGTTCGATAG
181
V S K C T S E S S C R *

Fig. 7G

FIGS. 7F-7G



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iddmk1,2 22-POL

FTIPLAEQDCEKFAFTIPAINNKEPATRFQWKVLPQGMLNSPTICQTFVGRALQPVRDKFSDC
YIIHYFDDILCAAETKDKLIDCYTFLPAEVANAGLAIASDKIQTSTPFHYLGMQIENRKIKPO
KIEIRKDTLKTLDNFQKLLGDINWIRPTLGIPTYAMSNLFSILRGDSDLNSKRMLT

Fig. 7H



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k1,2-1

gtaaatgacacctatgatgcactgccaccctttcactgtttcaccctgaacatctgctttttac
atctaagtgattgtacccaataaatagtgtggagaccagagctctgagccttttgcagcctcca
ttttgcaactgggtcccctgggtcccacctttatgaactcttaacctgtcttttctcattccttt
gtcaccattggactttgggtaccctacgggtgggtgttgaggctgtcaccgcacattaa

Fig. 8A

k1,2-10

gtttagttaatctataatctatagagacaatgcttatcactggcttgctgtcaataaataatgtg
ggtaaactctctgtttcaagactctcagctttgaagctgtgagaccctgatttcccactccacac
ctctatatatttctgtgtgtgtgtctttaattcctccagtggttgctgggttagggctctcctcgacg
agctgtcgtgc

Fig. 8B

k1,2-16

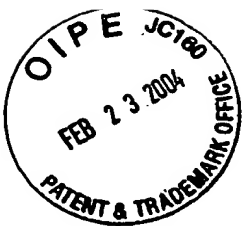
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actctggccttgacagagagtccctgttcccacttcaacttttcccttttccaccaataaaaacctg
ctttcactcatgcatcaaattgtctgtgagcctacatttttgtggccatgggacaagaacacc
atctttagctgagctagggaaaagtcctgca

Fig. 8C

k1,2-17

gatgtgaccactgtgacctacctacactggagatggctcacacttccttacccttcccctgct
gtaccaataaataacagcacagcctgacattcggagccattaccggtctttgtgacttggtgg
tagtggtatcccctagggccagctgtcttttcttttatctctttgtcttgtgtctttatttc
tatgagtctctcgtctccgcacatggggagaaaaacccatagaccctgtagggtg

Fig. 8D



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k1,2-26

ctcacaaaaataataaaaagcttctgttgccattcttcagatcttcatctcttgtgaggatcc
ccctgtacatgtaaaaatgtaataaaaacttgtatcctttctcctcttaatctgtcttgcacatca
atatcattcctagaccagtcagagatgggtggagggtgagccgtacatttccta

Fig. 8E

k1,2-27

cagagaactccagccagctgtgatggagcctcaggaagttcacagttgcagcaggaaggagcctggc
tgctcctcttctgtgtggaacctgggattagaacaggctggcaggaagtgtttagcagggactct
ggcctactcacactccttgtttccccctttcttcttttctactcaataaagccctgtcttactcac
cattcaaattgtctgtgagcctgaattttcatggctgtgggacaaagaaccctattttagctgaac
taaggaaaattcctgcaaa

Fig. 8F

k1,2-4

gtgattgtctgctgaccctctccccacaattgtcttgtgaccctgacacatccccctcttcga
gaaacacccgcggatgatcaataaatattaagggaactcagaggctggcaggatcctccatat
gctgaacgctgggtgccccgggtcccttctttctttcttatactttgtctctgtgtctttt
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cgccacataaca

Fig. 8G

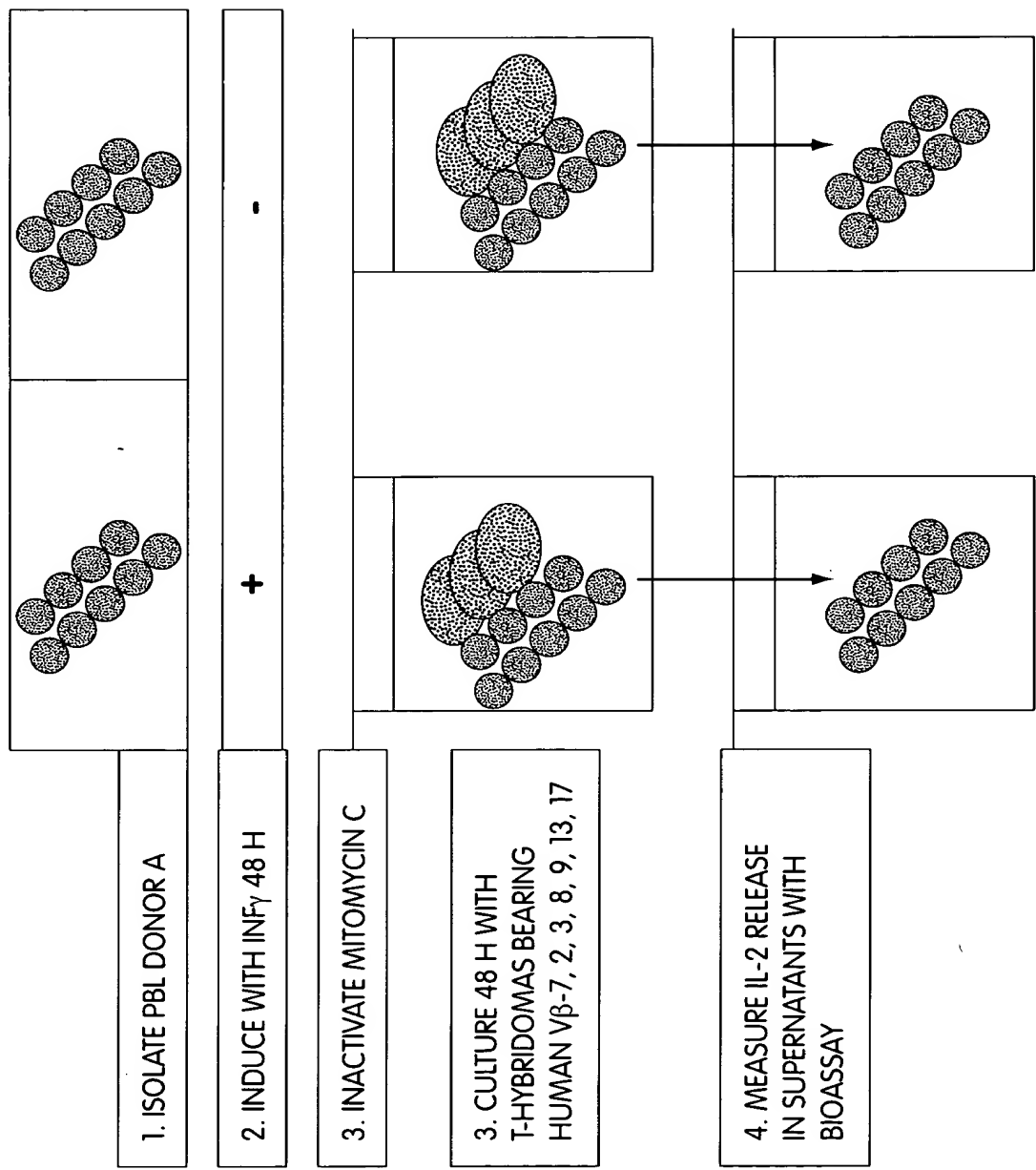


Fig. 9